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Ministero dell'Istruzione, dell'Università e della Ricerca Programma Nazionale di Ricerca in Antartide ANTARCTIC GEOLOGICAL 1:250,000 MAP SERIES **CONVOY RANGE AND FRANKLIN ISLAND**

QUADRANGLE (VICTORIA LAND) 2024

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EXPLANATION

	Water (seasonal)	
	Ice and snow	
U	UNKNOWN area known to be outcropping rock or cover deposits, exact nature of which is unknown	
GLACIAL AND QUATERNARY DEPOSITS		
ub	BEACH AND STRANDED MARINE DEPOSIT (Ju) Unconsolidated sandy, gravelly diamicton and boulders associated with Ross Sea beaches; rounded cobbles and wave-washed bedrock. May be fossiliferous Holocene in age.	
L.	SUPRAGLACIAL TILL (us) Superficial till on top of glacier; may include some young active or mobile ice-cored till. Holocene in age.	
u	UNDIFFERENTIATED LOCAL GLACIER TILL (u) Locally derived till in moraines; variably weathered; usually associated with present-day alpine glaciers. Holocene in age.	
	YOUNGER ICE SHEET TILL (ui1) Poorly sorted, bouldery sandy till containing dolerite and erratic granitoid boulders. Basalt absent. Locally ice-cored and modified by downslope creep. Deposite by ice lobes flowing toward the west. Middle - Late Pleistocene in age.	
U U U U U U U U U U U U U U U U U U U	UNDIFFERENTIATED ICE SHEET MARGIN TILL (ui) Till on margins of ice sheets, large snowfields or large glaciers occupying the major valleys; commonly degraded and covered by scree. Multiple advances ne always differentiated. Late Pliocene - Holocene in age.	
ui2	OLDER ICE SHEET TILL (ui2) Poorly sorted, bouldery sandy till containing dolerite and erratic granitoid boulders. Basalt absent. Deposited by ice lobes flowing toward the west. Pliocene - Pleistocene in age.	
	OLDER UNDIFFERENTIATED TILL (mt) Weathered unsorted semi-lithified diamicton with some fluvioglacial and glaciolacustrine interbeds of sand, located at high elevations, may represent multip geologic events and contain exotic microflora (Sirius Group), and undifferentiated moderately weathered to highly weathered bouldery sandy till with modifie surfaces and uncertain origin. Oligocene - Pliocene in age.	
	COLLUVIUM, SCREE AND REGOLITE (w) Clast-supported angular boulders with little matrix, to subrounded cobbles in a sandy matrix. Undifferentiated Quaternary in age.	
	UNDIFFERENTIATED TILL (u) Undifferentiated till in moraines of uncertain origin, and cover deposits inferred to be till. Quaternary age (cf. older undifferentiated till) based on landforms of degree of weathering. Quaternary in age.	
	POST-ROSS MAGMATISM AND SEDIMENTATION	

FERRAR GROUF

Kb	KIRKPATRICK BASALT (Kb) Pillow and subaerial lavas, associated with thin sedimentary volcanogenic layers. The Mesa Range basalts (Mt Murchison quadrangle) provided 178 Ma K/A ages.	
	Early Jurassic in age.	
Mf	MAWSON FORMATION (MI) Volcanoclastic rocks, mainly represented by unsorted to poorly sorted lapilli tuff and breccia, often with clasts and rafts of Beacon sediment. Sandstone and siltstone with associated basaltic lavas also occur. Early Jurassic in age.	
Fd	FERRAR DOLERITE (fd) Tholeiitic dolerite sills and dykes, with typical columnar jointing. They are usually emplaced in the sedimentary sequence of the Beacon Supergroup, whose stratigraphic succession and continuity is disrupted. Though usually emplaced above the pre-Beacon peneplain, in places dykes are emplaced also in the granite basement. Minor m-thick dioritic dykes with big amphiboles locally occur. A K/Ar age of 174±10 Ma has been reported from the Mt Murchison quadrangle. Small	
BEAG	Early Jurassic in age.	
DEACON SUPERGROUP		
	UNDIFFERENTIATED BEACON SANDSTONE (6s) Mainly fluviatile cross-bedded, coarse- to medium-grained sandstone with feldspathic to quartzose composition. Intercalations of conglomerate, black shale, and coal measures occur as well. No age-related fossils were found so far and these sandstones are attributed to an undifferentiated Beacon Sandstone. Sma rectangle indicates the occurrence of sandstone bodies too small to be mapped. Small black rectangle indicates Beacon strata with organic material.	
By	Devonian to Early Jurassic in age.	
Bs Bt	BEACON VICTORIA GROUP (bv) The lower part is made up of conglomeratic and coarse-grained sandstone, massive and cross-bedded sandstone, fine-grained sandstone and siltstone carbonaceous mudstone, shale and coal. The medium part is made up of granular and pebbly quartzofeldspathic sandstone, with lesser quartz pebble conglo merate, siltstone and mudstone. The upper part is made up of quartzofeldspathic and lithic sandstone and siltstone, with lesser conglomerate, mudstone breccia, and thin coal seams. Permian to Early Jurassic in age.	
	BEACON TAYLOR GROUP (B) Parallel- and cross-bedded, medium- to fine-grained sandstone. The predominant composition is quartz sandstone with little feldspar, with intercalated siltstone and shale beds; dark mudstone interbeds are more common in the upper part.	

TERRANES AND UNITS OF THE ROSS OROGEN WILSON TERRANE

GRANITE HARBOUR INTRUSIVE COMPLEX

GRANITE HARBOUR GRANODIORITE AND GRANITE (GHgr) Syn- to post-kinematic granite, granodiorite and tonalite (local name: Larsen Granodiorite), unfoliated to weakly foliated. In the adjoining Relief Inlet quadrangle, a Rb/Sr cooling age of 498 ± 11 Ma has been obtained. Post-kinematic, pink to reddish, K-feldspathic granite. Local name: Irizar Granite. e Cambrian in age.

GRANITE HARBOUR DIORITE AND GABBRO (6H) Diorite, gabbro and pyroxenite with weakly foliated fabric. A 513-526 Ma U-Pb age on Zrn was obtained at Cape Confusion (Northern Foothills). Cambrian in age. GHt

SUB-VOLCANIC UNIT

Devonian in age.

JOHNNIE WALKER FORMATION (W) Andesite, brecciated andesite, rhyolite and granophyre, low-grade metamorphosed and intruded by the Granite Harbour Intrusives. Age is unknown.

WILSON METAMORPHIC COMPLEX

OW- TO MEDIUM-GRADE METASEDIMENT (Wg) Metasandstone, slate, phyllite and metaconglomerate, often contact metamorphosed. Local name: Priestley Formation. Age is unknown, but a Neoproterozoic to Cambrian age is inferred.

SYMBOLS





Geological boundary

√⁷⁰
Tectonic foliation

√26 Bedding









TOPOGRAPHIC BASE: U.S. GEOLOGICAL SURVEY MAPS, ANTARCTICA , 1:250.000 RECONNAISSANCE SERIES Provided by courtesy of the U.S. Geological Survey



+ GHgr

Bv Fd

Area of new mapping: Geology by Capponi, Montomoli, Simonetti Quaternary deposits by Salvatore, Casale

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clasites crosscut the Granite Harbour granitoid.

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